

Technical work : wet & dry labs

November 2015: Brainstorming

January to March 2016: Literature research and definition of the project

12/03/2016: First attempt to design new aptamers from scratch with 2015 iGEM Heidelberg team's MAWS

04/04/2016: Aptamers modifications with fluorescein

27/04/2016: Modeling the aptamer ATP

6/05/2016: Modeling the aptamer HIV RT

08/05/2016: Streptavidin with Cellulose Binding Domains (CBDs) design

02/05/2016 : First test to predict an aptamer structure with Rosetta

10/05/2016 : Stopped trying to get MAWS to work

13/05/2016: Modeling the aptamer Thrombin & Human telomerase RNA

20/05/2016: Improvement of the modeling with constraints for structures with G-quadruplex and pseudoknot

25/05/2016: Modeling the aptamers HBsAg

31/05/2016: Modeling the protein HBsAg

03/06/2016: Docking between HBsAg and its aptamers

08/06/2016 : Fluorescence measurements in blood

10/06/2016: HBsAg and HIV p51 and p66 subunits part design

15/06/2016: Aptamer interaction with ATP measurements

Human Sciences and Society

November 2015 : Brainstorming

January to March 2016 : Preparation of interviews, documentary research on diagnosis tests

10/03/2016: interview at Villeurbanne planned parenthood

17/03/2016: First contacts at Croix Rousse Free diagnosis Center (CeGIDD) and at Croix Rousse French blood center

31/03/2016: interviews at E. Herriot Hospital CeGIDD

April: Literature searches, work on the interviews.

03/05/2016: preparation of the matrix

12/05/2016: meeting and conference with J. Bonnet

22/05/2016: Creation of the survey

23/05/2016: Opening of the Ethical Matrix

EXAM BREAK

19/06/2016: Fluorescence measurement with all the detection system

30/06/2016: Aptamers interaction with human thrombin protein measurements

04/07/2016: Aptamers interaction with HBsAg protein measurements

07/07/2016: First tests of the device with blood and paper

11/07/2016: First device printing

12/07/2016: p51 and p66 HIV reverse transcriptase subunits production and characterization

15/07/2016: Modeling the chimeric protein with Cellulose Binding Domains

18/07/2016: Aptamers interaction with HIV reverse transcriptase measurements

20/07/2016: Automated structure prediction procedure

05/08/2016: Streptavidin with CBD_CipA (cellulosomal scaffolding protein A) and RFP with CBDs part design

06/08/2016: Idea to share the aptamer structure computation tool online

23/08/2016: Signing the license for using Rosetta online and working web-server

07/09/2016: Streptavidin protein fixation on cellulose support

08/09/2016: Cellulose Binding Domains (CBDs) characterization

10/09/2016: Aptamers modifications with latex beads

25/06/2016: Conference Aptamers in Bordeaux with C. O'Sullivan

01/07/2016: Interviews at Croix Rousse CeGIDD

04/07/2016: First version of the survey

05/07/2016: Contact Dr. Caillon for the CeGIDD's databases

10/07/2016: Prevention Poster shooting

12/07/2016: Redaction of the user note

25/07/2016: Ethical matrix completed

SUMMER BREAK

25/08/2016: Interview with Pr. Chidiac head of the CeGIDD/Validation of the Survey

27/08/2016 : Analysis of Rapport Morlat

02/09/2016: Synthesis of the matrix

05/09/2016: Science education workshops

06/09/2016: meetings and conference with P. Monsan, presentation of the project at the inauguration of the new synthetic biology laboratory

13/09: Analysis of the student survey

16/09/2016: Second device printing

23/09/2016: Streptavidin chimeric protein production and characterization

24/09/2016: Aptamer fixation on chimeric streptavidin protein

30/09/2016: Something changed in Rosetta, broken procedure

02/10/2016: Final measurements for aptamers interaction with HBsAg protein.

08/10/2016: pTAC promoter characterization with RFP and CFP

21/09: Analysis of the CeGIDD survey

26/09/2016: User note designed

10/10/2016: Redaction of Scale up and deployment issue